## **Listing of Claims**

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- 1. (original) An aluminum alloy for a cast engine block, said alloy consisting essentially of, by weight, 9.5 to 12.5% silicon, 0.1 to 1.5% iron, 0.2 to 3% manganese, 0.1 to 0.6% magnesium, up to 0.05% strontium and the balance aluminum, where the weight ratio of manganese to iron is at least 1.2 to 1.75 when the iron content is equal to or greater than 0.4% and the weight ratio of manganese to iron is at least 0.6 to 1.2 when the iron content is less than 0.4% of the alloy.
- 2. (original) An aluminum alloy for a cast engine block, said alloy consisting essentially of, by weight, 9.5 to 12.5% silicon, 0.1 to 1.5% iron, 1.5 to 4.5% copper, 0.2 to 3% manganese, 0.1 to 0.6% magnesium, 2.0% max zinc, 0 to 1.5% nickel, 0.25% maximum titanium, up to 0.05% strontium and the balance aluminum, where the weight ratio of manganese to iron is at least 1.2 to 1.75 when the iron content is equal to or greater than 0.4% and the weight ratio of manganese to iron is at least 0.6 to 1.2 when the iron content is less than 0.4% of the alloy.
- 3. (original) An aluminum alloy for a cast engine block as recited in claim 2 in which the weight ratio of manganese to iron is at least 1.2 to 1.75 when the copper content exceeds 1.5% or the nickel content exceeds 0.75%.
- 4. (original) An aluminum alloy for a cast engine block, said alloy consisting essentially of, by weight, 11.25 to 11.75% silicon, 0.35 to 0.65% iron, 1.75 to 2.75% copper, 0.4 to 1.2% manganese, 0.15 to 0.3% magnesium, 0.5% max zinc, a trace of nickel, 0.2% maximum titanium, 0.01% to 0.03% strontium and the balance aluminum, where the weight ratio of manganese to iron is at least 1.2 to 1.75.
- 5. (original) A cast cylinder block for an internal combustion engine when formed of the alloy recited in claim 1.

6. (original) A cast cylinder block for an internal combustion engine when formed of the alloy recited in claim 2.

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- 7. (original) A cast cylinder block for an internal combustion engine when formed of the alloy recited in claim 3.
- 8.(original) A cast cylinder block for an internal combustion engine when formed of the alloy recited in claim 4.
- 9. (new) An aluminum casting alloy, said alloy comprising, by weight, 9.5 to 12.5% silicon, 0.1 to 1.5% iron, 0.2 to 3% manganese, 0.1 to 0.6% magnesium, up to 0.05% strontium, and aluminum, where the weight ratio of manganese to iron is at least 1.2 when the iron content is equal to or greater than 0.4% and the weight ratio of manganese to iron is at least 0.6 when the iron content is less than 0.4% of the alloy.
- 10. (new) An aluminum casting alloy as recited in claim 9, said alloy comprising, by weight, 9.5 to 12.5% silicon, 0.1 to 1.5% iron, 1.5 to 4.5% copper, 0.2 to 3% manganese, 0.1 to 0.6% magnesium, 2.0% max zinc, 0 to 1.5% nickel, 0.25% maximum titanium, up to 0.05% strontium, and aluminum, where the weight ratio of manganese to iron is at least 1.2 when the iron content is equal to or greater than 0.4% and the weight ratio of manganese to iron is at least 0.6 when the iron content is less than 0.4% of the alloy.
- 11. (new) An aluminum casting alloy as recited in claim 10 in which the weight ratio of manganese to iron is at least 1.2 when the copper content exceeds 1.5% or the nickel content exceeds 0.75%.
- 12. (new) An aluminum casting alloy as recited in claim 9, said alloy comprising, by weight, 9.5 to 11.75% silicon, 0.1 to 1.5% iron, 0.2 to 3% manganese, 0.1 to 0.6% magnesium, up to 0.05% strontium, and aluminum, where the weight ratio

of manganese to iron is at least 1.2 when the iron content is equal to or greater than 0.4% and the weight ratio of manganese to iron is at least 0.6 when the iron content is less than 0.4% of the alloy.

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- 13. (new) An aluminum casting alloy as recited in claim 9, said alloy comprising, by weight, 9.5 to 11.75% silicon, 0.1 to 1.5% iron, 1.5 to 4.5% copper, 0.2 to 3% manganese, 0.1 to 0.6% magnesium, 2.0% max zinc, 0 to 1.5% nickel, 0.25% maximum titanium, up to 0.05% strontium, and aluminum, where the weight ratio of manganese to iron is at least 1.2 when the iron content is equal to or greater than 0.4% and the weight ratio of manganese to iron is at least 0.6 when the iron content is less than 0.4% of the alloy.
- 14. (new) An aluminum casting alloy as recited in claim 13 in which the weight ratio of manganese to iron is at least 1.2 when the copper content exceeds 1.5% or the nickel content exceeds 0.75%.
- 15. (new) An aluminum casting alloy as recited in claim 9, said alloy consisting essentially of, by weight, 11.25 to 11.75% silicon, 0.35 to 0.65% iron, 1.75 to 2.75% copper, 0.4 to 1.2% manganese, 0.15 to 0.3% magnesium, 0.5% max zinc, a trace of nickel, 0.2% maximum titanium, 0.01% to 0.03% strontium, and aluminum, where the weight ratio of manganese to iron is at least 1.2 when the iron content is equal to or greater than 0.4% and the weight ratio of manganese to iron is at least 0.6 when the iron content is less than 0.4% of the alloy.
- 16. (new) An aluminum casting alloy as recited in claim 9, said alloy comprising, by weight, 9.5 to 11.75% silicon, 0.1 to 1.5% iron, 0.2 to 3% manganese, 0.1 to 0.6% magnesium, up to 0.05% strontium, and aluminum, where the weight ratio of manganese to iron is at least 1.2 when the iron content is equal to or greater than 0.4% and the weight ratio of manganese to iron is at least 0.6 when the iron content is

less than 0.4% of the alloy, and the microstructure of the cast alloy is substantially free of primary silicon.

- 17. (new) An aluminum casting alloy as recited in claim 9, said alloy comprising, by weight, 9.5 to 11.75% silicon, 0.1 to 1.5% iron, 1.5 to 4.5% copper, 0.2 to 3% manganese, 0.1 to 0.6% magnesium, 2.0% max zinc, 0 to 1.5% nickel, 0.25% maximum titanium, up to 0.05% strontium, and aluminum, where the weight ratio of manganese to iron is at least 1.2 when the iron content is equal to or greater than 0.4% and the weight ratio of manganese to iron is at least 0.6 when the iron content is less than 0.4% of the alloy, and the microstructure of the cast alloy is substantially free of primary silicon.
- 18. (new) An aluminum casting alloy as recited in claim 17 in which the weight ratio of manganese to iron is at least 1.2 when the copper content exceeds 1.5% or the nickel content exceeds 0.75%.
- 19. (new) An aluminum casting alloy as recited in claim 9, said alloy consisting essentially of, by weight, 11.25 to 11.75% silicon, 0.35 to 0.65% iron, 1.75 to 2.75% copper, 0.4 to 1.2% manganese, 0.15 to 0.3% magnesium, 0.5% max zinc, a trace of nickel, 0.2% maximum titanium, 0.01% to 0.03% strontium, and aluminum, where the weight ratio of manganese to iron is at least 1.2 when the iron content is equal to or greater than 0.4% and the weight ratio of manganese to iron is at least 0.6 when the iron content is less than 0.4% of the alloy, and the microstructure of the cast alloy is substantially free of primary silicon.